Attorney Docket No.: VRT0097US

PROPAGATING RESULTS OF A VOLUME-CHANGING OPERATION TO REPLICATED NODES

Arvind Arun Pande Saurabh Ramchandra Godbole Anand A. Kekre

ABSTRACT OF THE DISCLOSURE

5

10

15

A method, system, and computer-readable medium to quickly synchronize copies of data that have diverged over time. The present invention can be used in synchronizing replicated copies of data that have become unsynchronized due to the restoration of primary data from a backup copy of the primary data. The solution enables copies of data to be synchronized without copying all of the data from one copy to another. The solution uses minimal resources to maintain data consistency and has minimal effect on performance of applications using the data and on network usage. The method includes determining that a change occurred to data in a region of a primary volume without including the region in a set of regions designated for replication to a secondary volume. The region is added to the set of regions designated for replication to the secondary volume and replicated.